

1. (Currently Amended) A magnetic tape comprising:
 - a longitudinally extending nonmagnetic support;
 - a magnetic layer formed by depositing a plurality of evaporated magnetic films, each having an oblique column-like structure, on a principal surface of said nonmagnetic support so that a growth direction of each of said deposited evaporated magnetic films is opposite to said longitudinal direction, said magnetic layer having a double-layered structure composed of a lower magnetic thin film and an upper magnetic thin film;
 - a protective layer formed on said magnetic layer; and
 - a backcoating layer formed on the other surface of said nonmagnetic support,wherein,
 - a heat-shrinkage ratio in said longitudinal direction and a width direction is defined to be 0.50% or less,
 - a humidity expansion coefficient is defined to be $1 \times 10^{-6}/\%$ RH or less after stock at 100 °C and 5 %RH for 30 minutes,
 - a thickness of said nonmagnetic support is defined to be 4.0 μm to 10.0 μm so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions,
 - a thickness of said magnetic layer is defined to be from 10 nm to ~~75~~less than 40 nm so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.
2. (Cancelled).
3. (Cancelled).
4. (Original) The magnetic tape according to claim 1, wherein:
 - a ratio of a total thickness of said magnetic tape to a thickness of said magnetic layer is defined to be 1000 or less so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.
5. (Original) The magnetic tape according to claim 1, wherein:
 - a width of said magnetic tape is defined to be 1.27 cm.

6. (Original) The magnetic tape according to claim 1, wherein:
a thickness of said nonmagnetic support is defined to be 4.0 μm to 10.0 μm ;
a thickness of said magnetic layer is defined to be 10 nm to 75 nm; and
a ratio of a total thickness of said magnetic tape to a thickness of said magnetic layer is defined to be 1000 or less so that said heat-shrinkage ratio and said humidity expansion coefficient satisfy said conditions.